Application No.: 10/008,547 Amendment Date:25 May 2005 Reply to Office action dated 22 May 2002

## **AMENDMENTS TO THE CLAIMS**

The listing of the claims will replace all prior versions and listing of the claims in this application.

## **Listing of Claims**

- 1. (currently amended) A coated semiconductor device having a plurality of electrodes embedded therein and exposed to an upper surface, and a coating layer coating the upper surface of the semiconductor device, wherein the coating layer is from about 0.5 to about 100 microns thick and is composed of a mixture of controlled porosity glass (CPG) particles having an average particle size of from about 0.25 to about 25 microns, and a thickening agent, wherein the coating layer adheres to the upper surface of the semiconductor device.
- 2. (original) The coated semiconductor device of claim 1 wherein the thickness of the coating layer is from about 1 to about 25 microns.
- 3. (original) The coated semiconductor device of claim 2 wherein the thickness of the coating layer is from about 3 to about 15 microns.
- 4. (original) The coated semiconductor device of claim 1 wherein the thickening agent is selected from the group consisting of solid polymers of olefins, polyethylene, polyvinyl difluoride, polypropylene and polybutylene; vinyl resins, polytetrafluroethylene (PTFE), polyvinylchloride, polyacrylates, polyvinylacetate and polymethylmethacrylate; polycarbonates and polysulfones, optionally in combination with an acid selected from the group consisting of HCl, HBr, HI, HNO<sub>3</sub>, H<sub>3</sub>PO<sub>4</sub>, HC1O<sub>4</sub>, acetic acid, sulfuric acid, organic acids, acetic acid, citric acid, malic acid, acids with the structure R COOH, R SO<sub>3</sub>H, and R PO<sub>3</sub>H<sub>2</sub>, nitric acid, phosphoric acid, and combinations thereof.
- 5. (original) The coated semiconductor device of claim 4 wherein the thickening agent is a resin.
- 6. (original) The coated semiconductor device of claim 5 wherein the thickening agent is PTFE in particle form or in aqueous suspension.
- 7. (original) The coated semiconductor device of claim 6 wherein the PTFE particles are from about 0.005 to about 1.0 microns.
- 8. (original) The coated semiconductor device of claim 1 wherein the semiconductor device is made from silicon nitride and the electrodes are made from platinum.
- 9. (currently amended) A formulation for coating <u>and adhering to</u> a semiconductor device, wherein the semiconductor device comprises a plurality of electrodes, comprising a mixture of controlled porosity glass (CPG) particles having an average particle size of from about 0.25 to about 25 microns, and a thickening agent.

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- 10. (currently amended) The formulation for coating <u>and adhering to</u> a semiconductor device of claim 9, wherein the thickness of the coating layer is from about 1 to about 25 microns.
- 11. (currently amended) The formulation for coating <u>and adhering to</u> a semiconductor device of claim 10, wherein the thickness of the coating layer is from about 3 to about 15 microns.
- 12. (currently amended) The formulation for coating and adhering to a semiconductor device of claim 9, wherein the thickening agent is selected from the group consisting of solid polymer of olefins, polyethylene, polypropylene and polybutylene; polyvinyldifluroide, vinyl resins, polyacrylates, polytetrafluoroethylene (PTFE), polyvinylchloride, polyvinylacetate and polymethylmethacrylate; polycarbonates and polysulfones, optionally in combination with an acid selected from the group consisting of HCl, HBr, HI, HNO<sub>3</sub>, H<sub>3</sub>PO<sub>4</sub>, HC1O<sub>4</sub>, acetic acid, sulfuric acid, organic acids, acetic acid, citric acid, malic acid, acids with the structure R COOH, R SO<sub>3</sub>H, and R PO<sub>3</sub>H<sub>2</sub>, nitric acid, phosphoric acid, and combinations thereof.
- 13. (currently amended) The formulation for coating <u>and adhering to</u> a semiconductor device of claim 9, wherein the thickening agent is a resin.
- 14. (currently amended) The formulation for coating <u>and adhering to</u> a semiconductor device of claim 9, wherein the thickening agent is PTFE in particle form or in aqueous suspension.
- 15. (currently amended) The formulation for coating <u>and adhering to</u> a semiconductor device of claim 9, wherein the PTFE particles are from about 0.005 to about 1.0 microns.